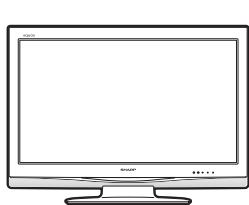


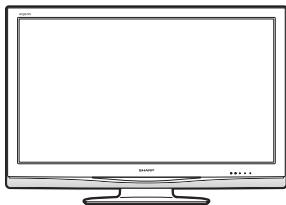
SHARP SERVICE MANUAL

No. S48J1LC32M44L

LCD COLOR TELEVISION



LC-32M44L



LC-37M44L

MODELS

LC-32M44L
LC-37M44L

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

OUTLINE

This model is based on the LC-32/37D44U and is changed some parts. This Service Manual covers the modifications alone. For the other points, refer to the LC-32D44U (No. SY7C1LC32D44U) and LC-37D44U (No. S18D7LC37D44U) Service Manual.

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Parts Guide

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

OUTLINE AND DIFFERENCES FROM BASE MODEL

OUTLINE

This model is based on the LC-32/37D44U and is changed some parts. This Service Manual covers the modifications alone. For the other points, refer to the LC-32D44U (No. SY7C1LC32D44U) and LC-37D44U (No. S18D7LC37D44U) Service Manual.

LIST OF CHANGED PARTS (LC-32M44L)

Ref. No.	Description	LC-32D44U (No. SY7C1LC32D44U)	LC-32M44L (No. S48J1LC32M44L)	Note
PRINTED WIRING BOARD ASSEMBLIES				
R/C, LED Unit	R/C, LED Unit	DUNTKE264FM02	←	Some parts changed
	KEY Unit	DUNTKE266FM02	←	—
	MAIN Unit	DUNTKE450FM01	DUNTKE450FM03	Some parts changed
	POWER/INVERTER Unit	RUNTKA397WJQZ	RUNTKA419WJQZ	—
LCD PANEL				
	LCD Panel Module Unit	R1LK315T3GW20Z	R1LK315T3GW30Z	—
R/C, LED Unit				
Q102	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q103	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q104	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q106	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q107	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
MAIN Unit				
D1306	Photo Diode	VHPGPFSV51T-1	VHPGPFSV51V-1	Change
D9003	Zener Diode	RH-EX1234CEZZY	—	Delete
IC1604	IC	VHiSii9185+-1Q	VHiSii9185A-1Q	Change
P2001	Plug	QPLGN0060CEZZY	—	Delete
P9202	Plug	QPLGNA144WJZZY	—	Delete
P9301	Plug	QCNCWA562WJQZY	—	Delete
Q509	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q510	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q515	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q516	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q517	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q518	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q519	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q520	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q521	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q522	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q523	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q524	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q1101	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q1102	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q1307	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q2001	Transistor	VSKRC404E++-1Y	—	Delete
Q5414	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q9301	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
R9209	Resistor	VRS-CZ1JF470JY	—	Delete
CABINET AND MECHANICAL PARTS				
Please refer to a Parts list				
PACKING PARTS AND ACCESSORIES				
Please refer to a Parts list				

LIST OF CHANGED PARTS (LC-37M44L)

Ref. No.	Description	LC-37D44U (No. S18D7LC37D44U)	LC-37M44L (No. S48J1LC32M44L)	Note
PRINTED WIRING BOARD ASSEMBLIES				
R/C, LED Unit	R/C, LED Unit	DUNTKE264FM02	←	Some parts changed
	KEY Unit	DUNTKE266FM02	←	—
	MAIN Unit	DUNTKE450FM01	DUNTKE450FM03	Some parts changed
	POWER Unit	RDENCA272WJQZ	RDENCA270WJQZ	—
	INVERTER Unit	RUNTKA418WJQZ	←	—
LCD PANEL				
	LCD Panel Module Unit	R1LK370T3GW20Z	←	—
R/C, LED Unit				
Q102	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q103	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q104	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q106	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q107	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
MAIN Unit				
D1306	Photo Diode	VHPGPFSV51T-1	VHPGPFSV51V-1	Change
D9003	Zener Diode	RH-EX1234CEZZY	—	Delete
IC1604	IC	VHiSii9185+-1Q	VHiSii9185A-1Q	Change
P2001	Plug	QPLGN0060CEZZY	—	Delete
P9202	Plug	QPLGNA144WJZZY	—	Delete
P9301	Plug	QCNCWA562WJQZY	—	Delete
Q509	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
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Q515	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
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Q517	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q518	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q519	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q520	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q521	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q522	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q523	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q524	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q1101	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q1102	Transistor	VS2SC3928AR-1Y	VSKTC3875SG-1Y	Change
Q1307	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q2001	Transistor	VSKRC404E++-1Y	—	Delete
Q5414	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
Q9301	Transistor	VS2SA1530AR-1Y	VSKTA1504SG-1Y	Change
R9209	Resistor	VRS-CZ1JF470JY	—	Delete
CABINET AND MECHANICAL PARTS				
Please refer to a Parts list				
PACKING PARTS AND ACCESSORIES				
Please refer to a Parts list				

SAFETY PRECAUTION

IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

■WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE.

F7101 (250V 6.3A)
F7102 (250V 1A)
F7103 (250V 6.3A)

■BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

3. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
4. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.
- Plug the AC cord directly into a 110-240 volt 50/60Hz AC outlet.
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.

SAFETY NOTICE

Many electrical and mechanical parts in LCD color television have special safety-related characteristics.

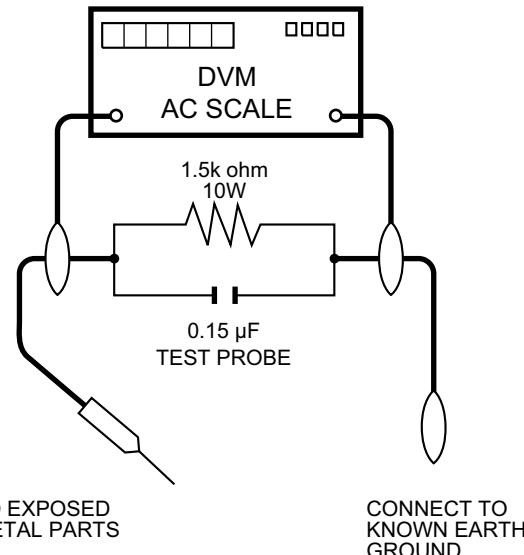
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "△" and shaded areas in the Replacement Parts List and Schematic Diagrams.

- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.75 Vrms (this corresponds to 0.5 mA rms AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

PRECAUTIONS A PRENDRE LORS DE LA REPARATION

■ Ne peut effectuer la réparation qu' un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.

■ AVERTISSEMENT

- N'entreprendre aucune modification de tout circuit. C'est dangereux.
- Débrancher le récepteur avant toute réparation.

PRECAUTION: POUR LA PROTECTION CONTINUE CONTRE LES RISQUES D'INCENDIE, REMPLACER LE FUSIBLE

F7101 (250V 6.3A)
F7102 (250V 1A)
F7103 (250V 6.3A)

■ VERIFICATIONS CONTRE L'INCEN-DIE ET LE CHOC ELECTRIQUE

Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.

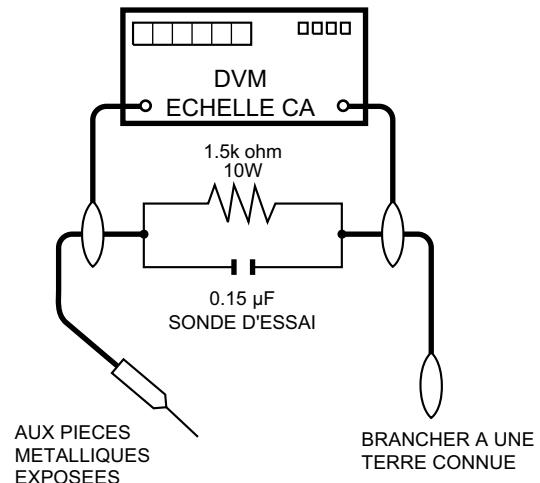
- Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
- Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistancecapacité, les isolateurs mécaniques, etc.
- S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la façon suivante:
 - Brancher le cordon d'alimentation directement à une prise de courant de 110-240V 50/60Hz. (Ne pas utiliser de transformateur d'isolation pour cet essai).

- A l'aide de deux fils à pinces, brancher une résistance de $1.5\text{ k}\Omega$ 10 watts en parallèle avec un condensateur de $0.15\mu\text{F}$ en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.

- Utiliser un voltmètre CA d'une sensibilité d'au moins $5000\Omega/\text{V}$ pour mesurer la chute de tension en travers de la résistance.
- Toucher avec la sonde d'essai les pièces métalliques exposées qui présentent une voie de retour au châssis (antenne, coffret métallique, tête des vis, arbres de commande et des boutons, écousson, etc.) et mesurer la chute de tension CA en-travers de la résistance. Toutes les vérifications doivent être refaites après avoir inversé la fiche du cordon d'alimentation. (Si nécessaire, une prise d'adpatation non polarisée peut être utilisée dans le but de terminer ces vérifications.)

La tension de pointe mesurée ne doit pas dépasser 0.75V (correspondante au courant CA de pointe de 0.5mA).

Dans le cas contraire, il y a une possibilité de choc électrique qui doit être supprimée avant de rendre le récepteur au client.



AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseur ACL présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.

Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.

Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

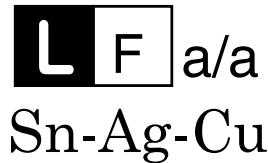
■Employing lead-free solder

- “PWBs” of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:



Indicates lead-free solder of tin, silver and copper.



Indicates lead-free solder of tin, silver and copper.

■Using lead-free wire solder

- When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

■Soldering

- As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

- Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

PARTS CODE	PRICE RANK	PART DELIVERY	DESCRIPTION
ZHNDAi123250E	BL	J	ø0.3mm 250g (1roll)
ZHNDAi126500E	BK	J	ø0.6mm 500g (1roll)
ZHNDAi12801KE	BM	J	ø1.0mm 1kg (1roll)

PRECAUTIONS IN SERVICING THE HDCP-KEY ROM

Applied part: HDCP-KEY ROM
IC8451 RH-IXC373WJQZY (updated ROM)

The HDCP-KEY ROM shall be protected and managed for its information inside. In servicing this ROM, therefore, take the following information protection/management measures.

- 1) When disposing of the component parts and PWBs, destruct the IC itself in a proper way.
(For repairing or replacing the component parts and PWBs as well as clearing those in stock)
- 2) In storing the component parts, protect and manage them against theft and disclosure.
(For storing the service parts, service units, etc.)

CHAPTER 1. SPECIFICATIONS

[1] SPECIFICATIONS

Item		Model: LC-32M44L	Model: LC-37M44L	
LCD panel		32" screen size class Advanced Super View & BLACK TFT LCD (Diagonal Measurement : 31 ¹ / ₂ ")	37" screen size class Advanced Super View & BLACK TFT LCD (Diagonal Measurement : 37")	
Resolution		1,049,088 pixels (1,366 × 768)		
TV Function	TV-standard (CCIR)		American TV Standard ATSC/NTSC System	
	Receiving Channel	VHF/UHF	VHF 2-13ch, UHF 14-69ch	
		CATV	1-135ch (non-scrambled channel only)	
		Digital Terrestrial Broadcast (8VSB)	2-69ch	
		Digital cable* (64/256 QAM)	1-135ch (non-scrambled channel only)	
	Audio multiplex		BTSC System	
Audio out		10W × 2		
Terminals	Rear	INPUT 1	AV in, COMPONENT in	
		INPUT 2	AV in, S-VIDEO in	
		INPUT 3	COMPONENT in	
		INPUT 4	HDMI in with HDCP	
		INPUT 5	Audio in, HDMI in with HDCP	
		INPUT 6	15-pin mini D-sub female connector, Audio in (Ø 3.5 mm jack)	
		ANT/CABLE	75 Ω Unbalance, F Type × 1 for Analog (VHF/UHF/CATV) and Digital (AIR/CABLE)	
		DIGITAL AUDIO OUTPUT	Optical Digital audio output × 1 (PCM/Dolby Digital)	
		OUTPUT	Audio out	
		SERVICE	Software update	
OSD language		English/French/Spanish		
Power Requirement		AC 110-240 V, 50/60 Hz		
Power Consumption		140 W (0.9 W Standby)	172 W (0.9 W Standby)	
Weight	TV + stand	29.8 lbs./13.5 kg	35.3 lbs./16.0 kg	
	TV only	25.4 lbs./11.5 kg	30.9 lbs./14.0 kg	
Dimension (W × H × D)	TV + stand	30 9/16 × 22 41/64 × 9 1/16 inch	35 19/32 × 25 3/32 × 9 1/16 inch	
	TV only	30 9/16 × 20 19/32 × 3 45/64 inch	35 19/32 × 23 1/32 × 3 3/4 inch	
Operating temperature		+ 32°F to + 104°F (0°C to + 40°C)		

* Emergency alert messages via Cable are unreceivable.

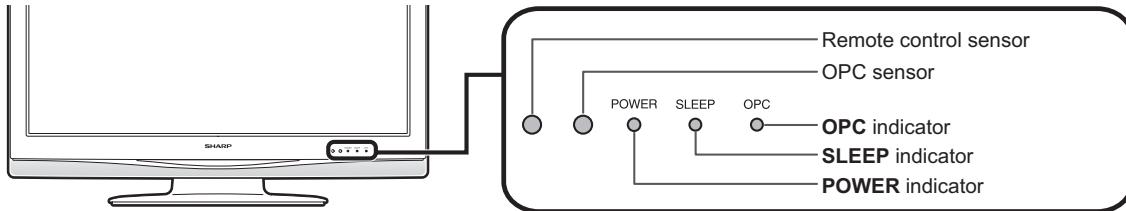
- As part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

CHAPTER 2. OPERATION MANUAL

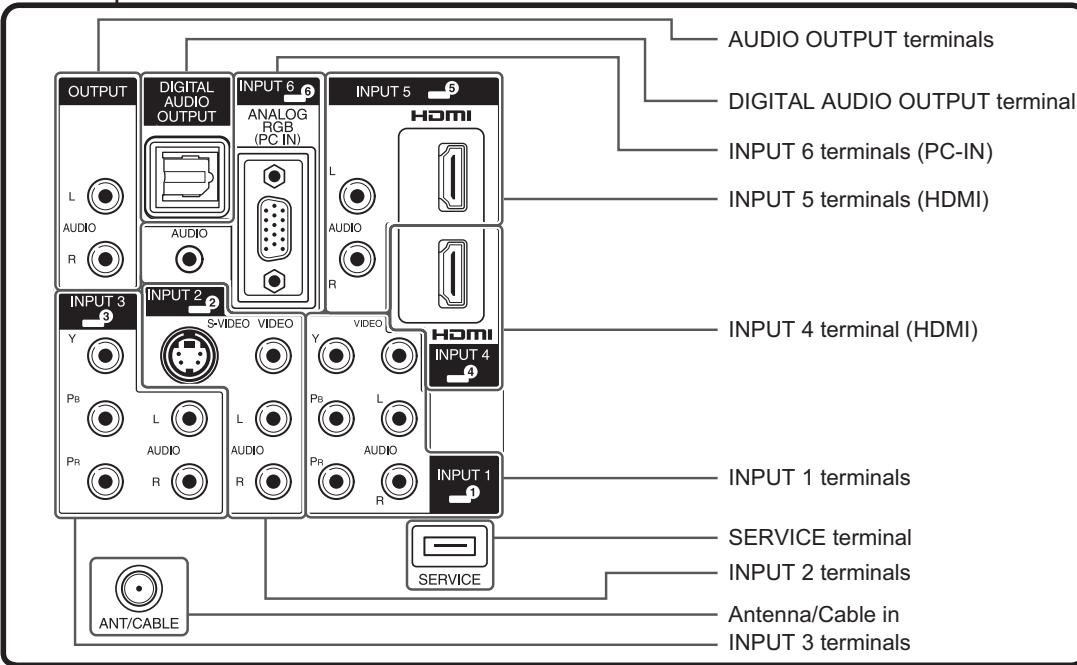
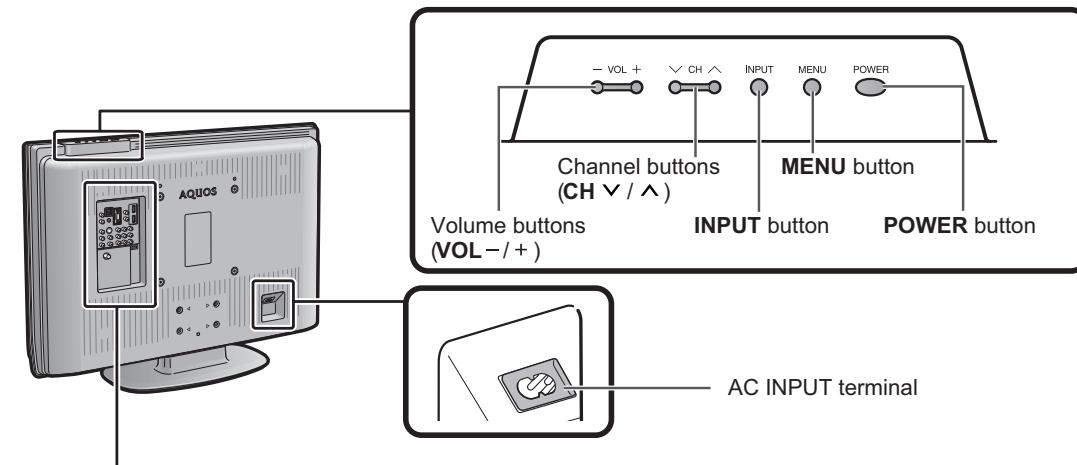
[1] OPERATION MANUAL

Part Names

TV (Front)



TV (Top/Rear)

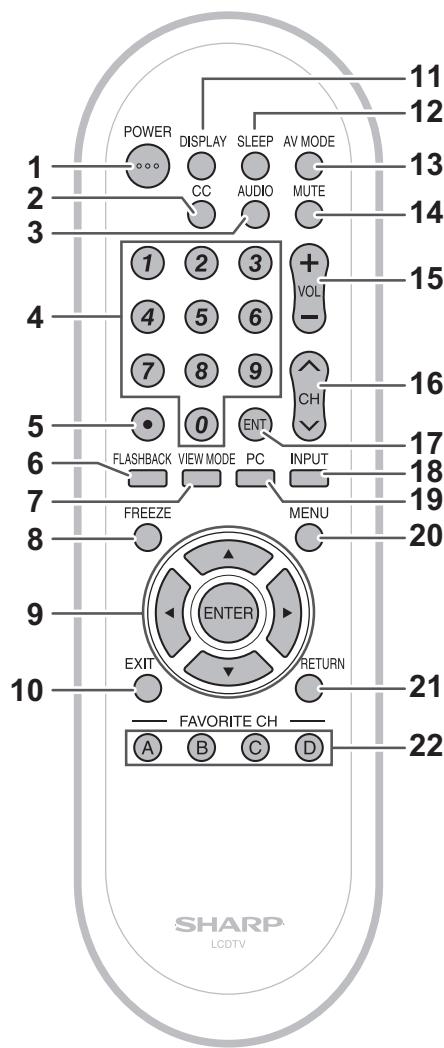


NOTE

- The illustrations in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The examples used throughout this manual are based on the LC-32M44L model.

Part Names

Remote Control Unit



- 1 **POWER:** Switch the TV power on or enters standby.
- 2 **CC:** Display captions from a closed-caption source.
- 3 **AUDIO:** Selects the MTS/SAP or the audio mode during multi-channel audio broadcasts.
- 4 **0–9:** Set the channel.
- 5 **•(DOT):**
- 6 **FLASHBACK:** Return to the previous channel or external input mode.
- 7 **VIEW MODE:** Select the screen size.
- 8 **FREEZE:** Set the still image. Press again to return to normal screen.
- 9 **▲ / ▼ / ◀ / ▶, ENTER:** Select a desired item on the screen.
- 10 **EXIT:** Turn off the menu screen.
- 11 **DISPLAY:** Display the channel information.
- 12 **SLEEP:** Set the sleep timer.
- 13 **AV MODE:** Select an audio or video setting.
(When the input source is TV, INPUT 1, 2 or 3: STANDARD, MOVIE, GAME, USER, DYNAMIC (Fixed), DYNAMIC. When the input source is INPUT 4, 5 or 6: STANDARD, MOVIE, GAME, PC, USER, DYNAMIC (Fixed), DYNAMIC)
- 14 **MUTE:** Mute the sound.
- 15 **VOL +/− :** Set the volume.
- 16 **CH ▲ / ▼ :** Select the channel.
- 17 **ENT:** Jumps to a channel after selecting with the 0–9 buttons.
- 18 **INPUT:** Select a TV input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5, INPUT 6)
- 19 **PC:** Quickly access to PC mode.
- 20 **MENU:** Display the menu screen.
- 21 **RETURN:** Return to the previous menu screen.
- 22 **FAVORITE CH**
A, B, C, D: Select 4 preset favorite channels in 4 different categories.
While watching, you can toggle the selected channels by pressing A, B, C and D.

NOTE

- When using the remote control unit, point it at the TV.

QUICK REFERENCE

Attaching/Detaching the Stand

- Before attaching (or detaching) the stand, unplug the AC cord from the AC INPUT terminal.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

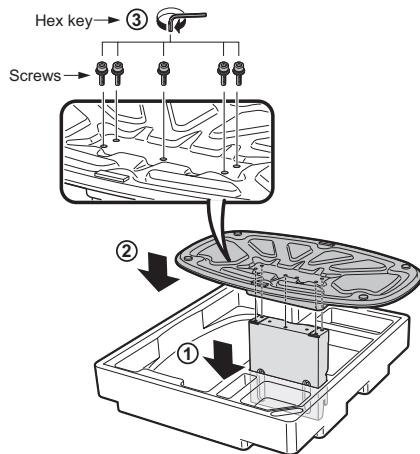
CAUTION

- Attach the stand in the correct direction.
- Do not remove the stand from the TV unless using an optional wall mount bracket to mount it.
- Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.

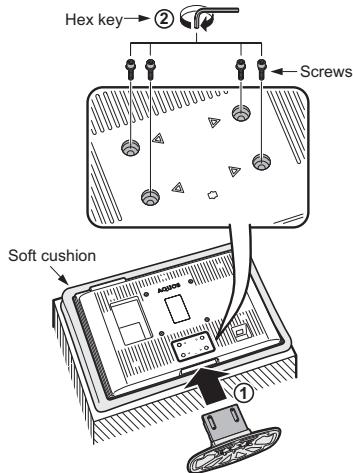
- Confirm that there are 9 screws and a hex key supplied with the stand unit.



- Attach the supporting post for the stand unit onto the base using the box for the stand unit as shown below.



- ① Insert the stand into the openings on the bottom of the TV.
- ② Insert and tighten the 4 screws into the 4 holes on the rear of the TV.



NOTE

- To detach the stand, perform the steps in reverse order.

Setting the TV on the Wall

CAUTION

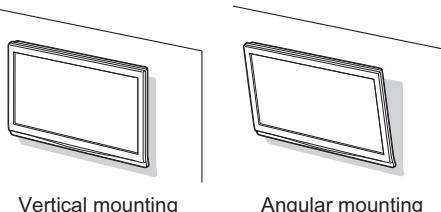
- This TV should be mounted on the wall only with the AN-37AG5 (SHARP) wall mount bracket. The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.
- Installing the TV requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.

Using an optional bracket to mount the TV

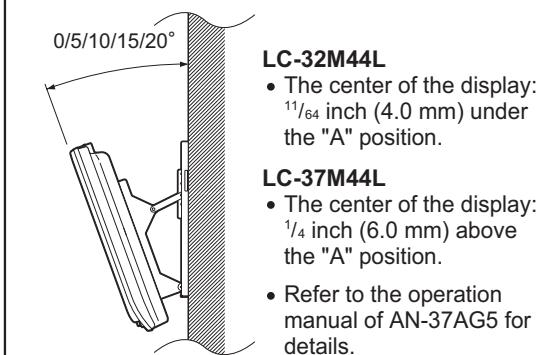
- You can ask a qualified service professional about using an optional AN-37AG5 bracket to mount the TV to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

Hanging on the wall

AN-37AG5 wall mount bracket.
(See the bracket instructions for details.)



About setting the TV angle



NOTE

- Detach the cable clamp on the rear of the TV when using the optional mount bracket.
- Due to the terminal configuration on this TV, when you wall-mount this model, make sure there is enough space between the wall and the TV for the cables.
- To use this TV mounted on a wall, first remove the adhesive tape at the 4 locations on the rear of the TV, and then use the screws supplied with the wall mount bracket to secure the bracket to the rear of the TV.

Appendix

Troubleshooting

Problem	Possible Solution
• No power	<ul style="list-style-type: none"> Check if you pressed POWER on the remote control unit. If the indicator on the TV does not light up, press POWER on the TV. Is the AC cord disconnected? Has the power been turned on?
• Unit cannot be operated.	<ul style="list-style-type: none"> External influences such as lightning, static electricity, may cause improper operation. In this case, operate the unit after first turning off the power of the TV or unplugging the AC cord and replugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	<ul style="list-style-type: none"> Are batteries inserted with polarity (+ , -) aligned? Are batteries worn out? (Replace with new batteries.) Are you using it under strong or fluorescent lighting? Is a fluorescent light illuminated near the remote control sensor?
• Picture is cut off/with sidebar screen.	<ul style="list-style-type: none"> Is the image position correct? Are screen mode adjustments such as picture size made correctly?
• Strange color, light color, or color misalignment	<ul style="list-style-type: none"> Adjust the picture tone. Is the room too bright? The picture may look dark in a room that is too bright. Check the input signal setting.
• Power is suddenly turned off.	<ul style="list-style-type: none"> Is the sleep timer set? Check the power control settings. The unit's internal temperature has increased. Remove any objects blocking vent or clean.
• No picture	<ul style="list-style-type: none"> Is connection to other components correct? Is correct input signal source selected after connection? Is the correct input selected? Is picture adjustment correct? Is "On" selected in "Audio Only"? Is a non-compatible signal being input?
• No sound	<ul style="list-style-type: none"> Is the volume too low? Is "Variable" selected in "Output Select"? Have you pressed MUTE on the remote control unit?
• The TV sometimes makes a cracking sound.	<ul style="list-style-type: none"> This is not a malfunction. This happens when the cabinet slightly expands and contracts according to change in temperature. This does not affect the TV's performance.

Troubleshooting-Digital Broadcasting

The error message about reception of broadcast

The example of an error message displayed on a screen	Error code	Possible Solution
• Failed to receive broadcast.	E202	<ul style="list-style-type: none"> Check the antenna cable. Check that the antenna is correctly setup.
• No broadcast now.	E203	<ul style="list-style-type: none"> Check the broadcast time in the program guide.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the Liquid Crystal panel to malfunction.
Storage temperature: -4°F to +140°F (-20°C to +60°C)

PC Compatibility Chart

It is necessary to set the PC correctly to display XGA and WXGA signal.

PC	Resolution		Horizontal Frequency	Vertical Frequency	VESA Standard	
PC	VGA	720 x 400	31.5 kHz	70 Hz	—	*
			31.5 kHz	60 Hz	○	
		640 x 480	37.9 kHz	72 Hz	○	
			37.5 kHz	75 Hz	○	
	SVGA	800 x 600	35.1 kHz	56 Hz	○	*
			37.9 kHz	60 Hz	○	
			48.1 kHz	72 Hz	○	
			46.9 kHz	75 Hz	○	*
	XGA	1024 x 768	48.4 kHz	60 Hz	○	
			56.5 kHz	70 Hz	○	
			60.0 kHz	75 Hz	○	
	WXGA	1360 x 768	47.7 kHz	60 Hz	○	

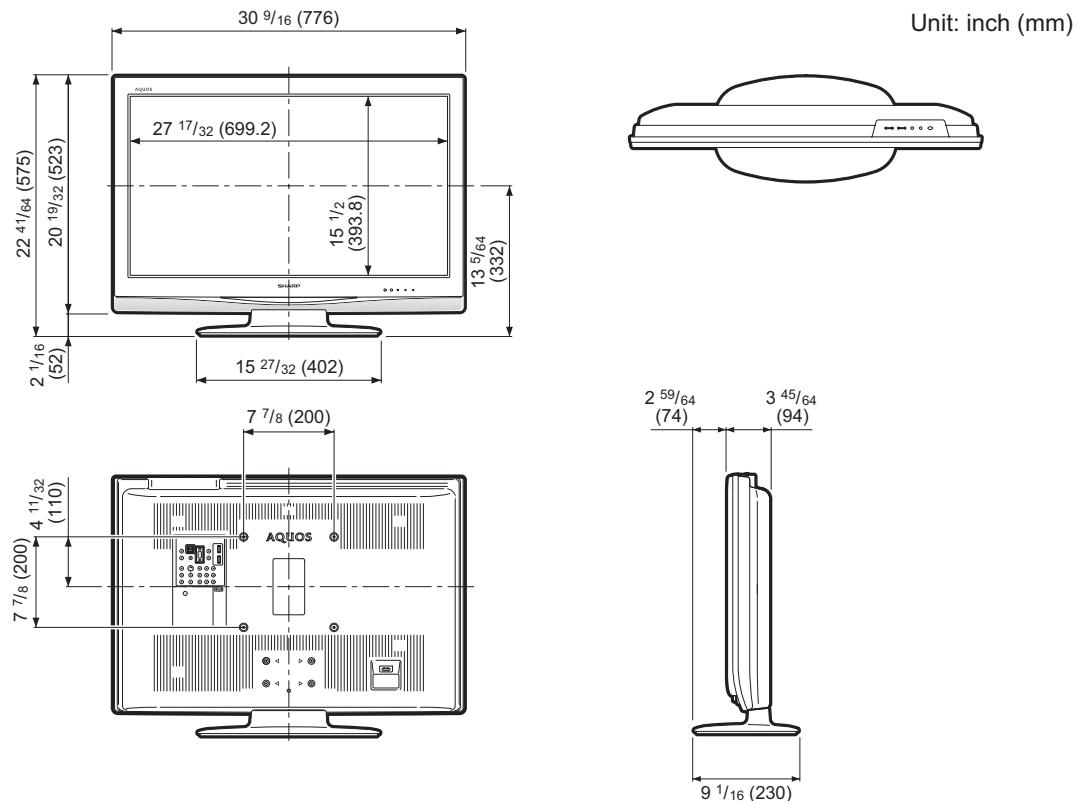
*These 3 formats are not supported by the analog RGB terminal.

DDC is a registered trademark of Video Electronics Standards Association.
VGA and XGA are registered trademarks of International Business Machines Corp.

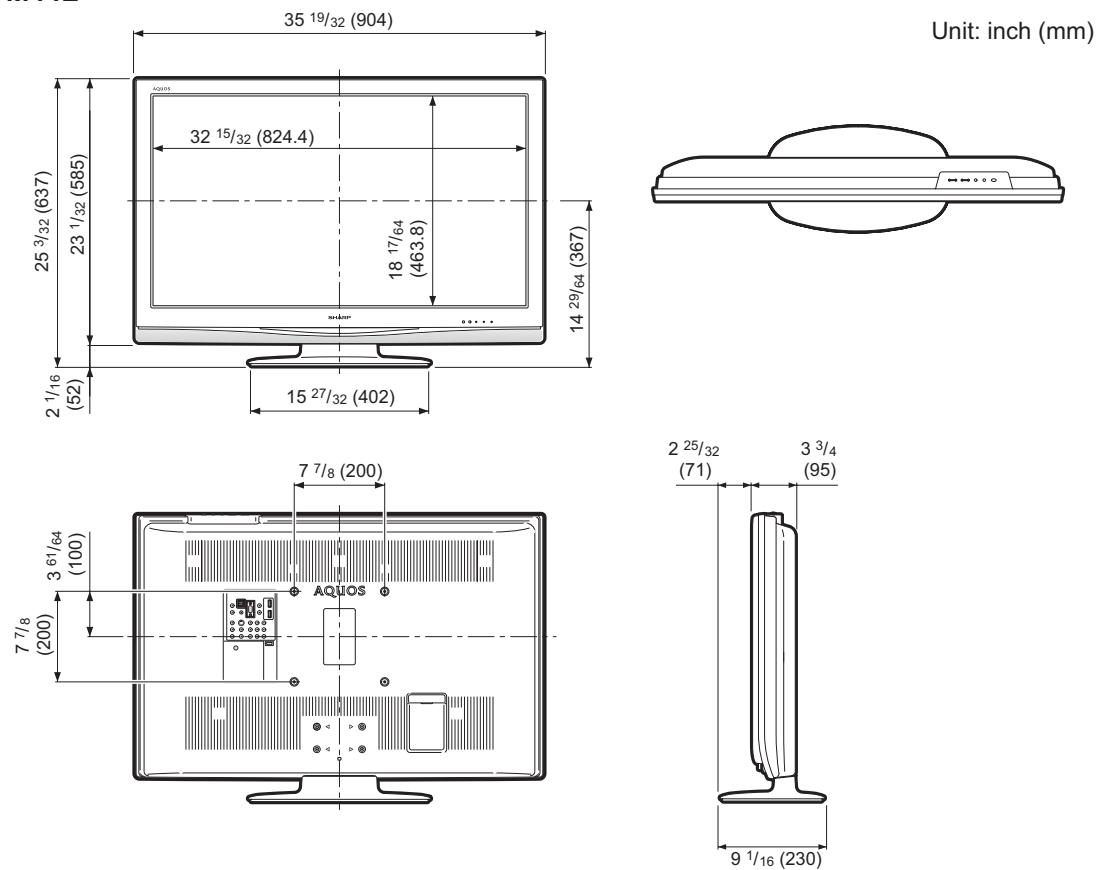
CHAPTER 3. DIMENSIONS

[1] DIMENSIONS

LC-32M44L



LC-37M44L



SHARP PARTS GUIDE

No. S48J1LC32M44L

Note:

The reference numbers on the PWB
are arranged in alphabetical order.

LC-32M44L MODELS LC-37M44L

CONTENTS

- | | |
|---|---|
| [1] PRINTED WIRING BOARD ASSEMBLIES | [9] SUPPLIED ACCESSORIES |
| [2] LCD PANEL (NOTE: THE PARTS HERE
SHOWN ARE SUPPLIED AS AN ASSEMBLY
BUT NOT INDEPENDENTLY.) | [10] PACKING PARTS (NOT REPLACEMENT ITEM) |
| [3] DUNTKE264FM02 (R/C, LED Unit) | [11] SERVICE JIG (USE FOR SERVICING) |
| [4] DUNTKE450FM03 (MAIN Unit) | |
| [5] NOTE (Conductive cloth tape/Gasket)
(LC-32M44L) | |
| [6] CABINET AND MECHANICAL PARTS
(LC-32M44L) | |
| [7] NOTE (Conductive cloth tape/Gasket)
(LC-37M44L) | |
| [8] CABINET AND MECHANICAL PARTS
(LC-37M44L) | |

Parts marked with "▲" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES					
N	DUNTKE264FM02	AP		X	R/C, LED Unit
N	DUNTKE266FM02	AG		X	KEY Unit
N	DUNTKE450FM03	CD	N	R	MAIN Unit
N	RDENCA270WJQZ	BQ	N	X	POWER Unit (LC-37M44L)
N	RUNTKA418WJQZ	BN	N	X	INVERTER Unit (LC-37M44L)
N	RUNTKA419WJQZ	BU	N	X	POWER/INVERTER Unit (LC-32M44L)
[2] LCD PANEL (NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.)					
N	R1LK315T3GW30Z	CW	N	J	32"LCD Panel Module Unit (LC-32M44L)
N	R1LK370T3GW20Z	EC	N	J	37"LCD Panel Module Unit (LC-37M44L)
[3] DUNTKE264FM02 (R/C, LED Unit)					
Q102	VSKTC3875SG-1Y	AB		J	Transistor
Q103	VSKTC3875SG-1Y	AB		J	Transistor
Q104	VSKTC3875SG-1Y	AB		J	Transistor
Q106	VSKTC3875SG-1Y	AB		J	Transistor
Q107	VSKTC3875SG-1Y	AB		J	Transistor
[4] DUNTKE450FM03 (MAIN Unit)					
D1306	VHPGPFSV51V-1	AG	N	R	Photo Diode
IC1604	VHiSi9185A-1Q	AN		J	IC, SII9185ACTU
Q509	VSKTA1504SG-1Y	AA	N	R	Transistor
Q510	VSKTC3875SG-1Y	AB		J	Transistor
Q515	VSKTA1504SG-1Y	AA	N	R	Transistor
Q516	VSKTA1504SG-1Y	AA	N	R	Transistor
Q517	VSKTA1504SG-1Y	AA	N	R	Transistor
Q518	VSKTA1504SG-1Y	AA	N	R	Transistor
Q519	VSKTA1504SG-1Y	AA	N	R	Transistor
Q520	VSKTA1504SG-1Y	AA	N	R	Transistor
Q521	VSKTA1504SG-1Y	AA	N	R	Transistor
Q522	VSKTA1504SG-1Y	AA	N	R	Transistor
Q523	VSKTA1504SG-1Y	AA	N	R	Transistor
Q524	VSKTA1504SG-1Y	AA	N	R	Transistor
Q1101	VSKTC3875SG-1Y	AB		J	Transistor
Q1102	VSKTC3875SG-1Y	AB		J	Transistor
Q1307	VSKTA1504SG-1Y	AA	N	R	Transistor
Q5414	VSKTA1504SG-1Y	AA	N	R	Transistor
Q9301	VSKTA1504SG-1Y	AA	N	R	Transistor

[5] NOTE (Conductive cloth tape/Gasket) (LC-32M44L)

Added parts

Conductive Cloth Tape

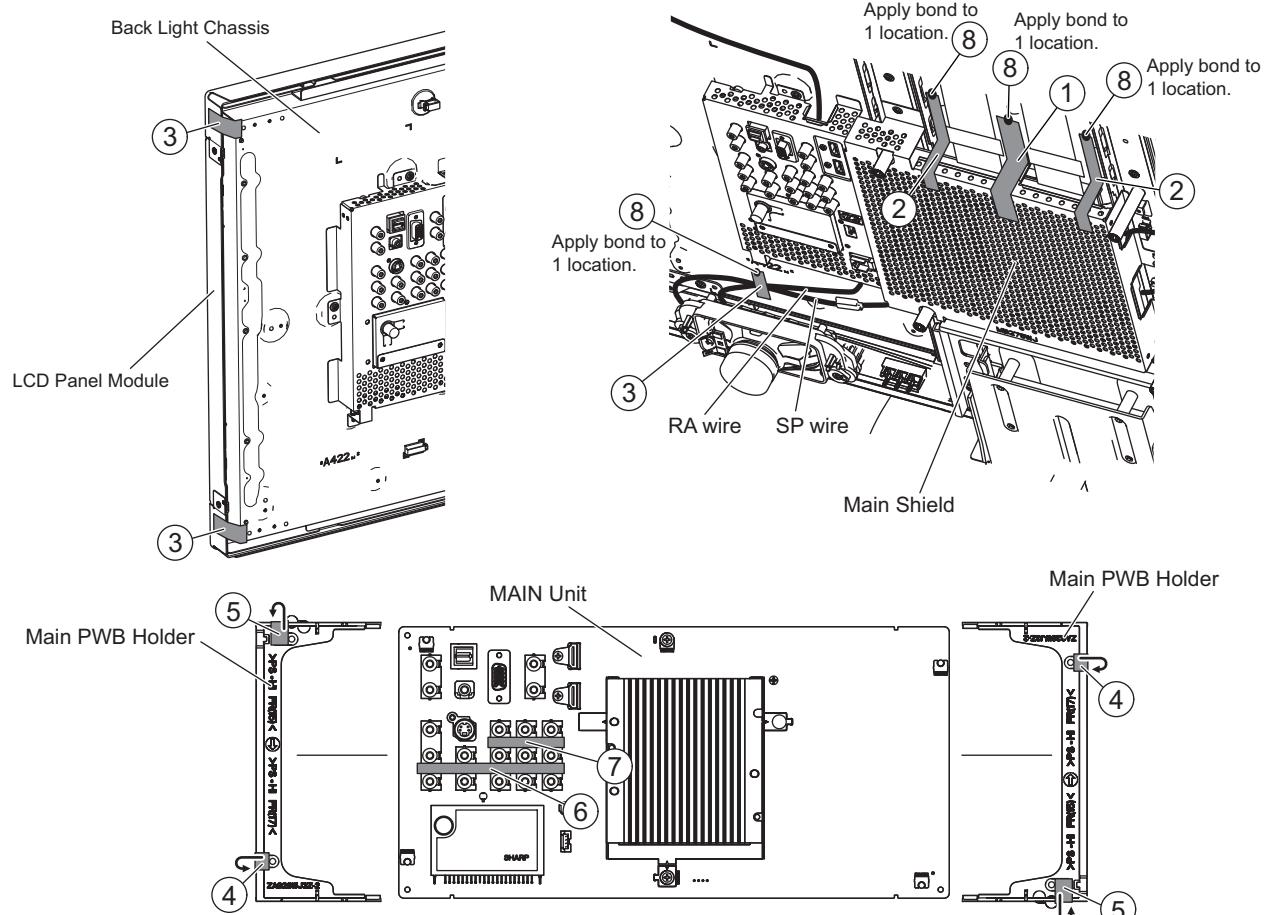
Parts code: ①PSLDMB359WJZZ	Q'ty 1	②PSLDMB360WJZZ	Q'ty 2
③QEARGA123WJZZ	Q'ty 3	④PSLDMB361WJZZ	Q'ty 2
⑤PSLDMB362WJZZ	Q'ty 2		

Gasket

Parts code: ⑥PMLT-A533WJZZ	Q'ty 1	⑦PMLT-A534WJZZ	Q'ty 1
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Bond

Parts code: ⑧ZSLCN-098P2KE	(One 150g tube)
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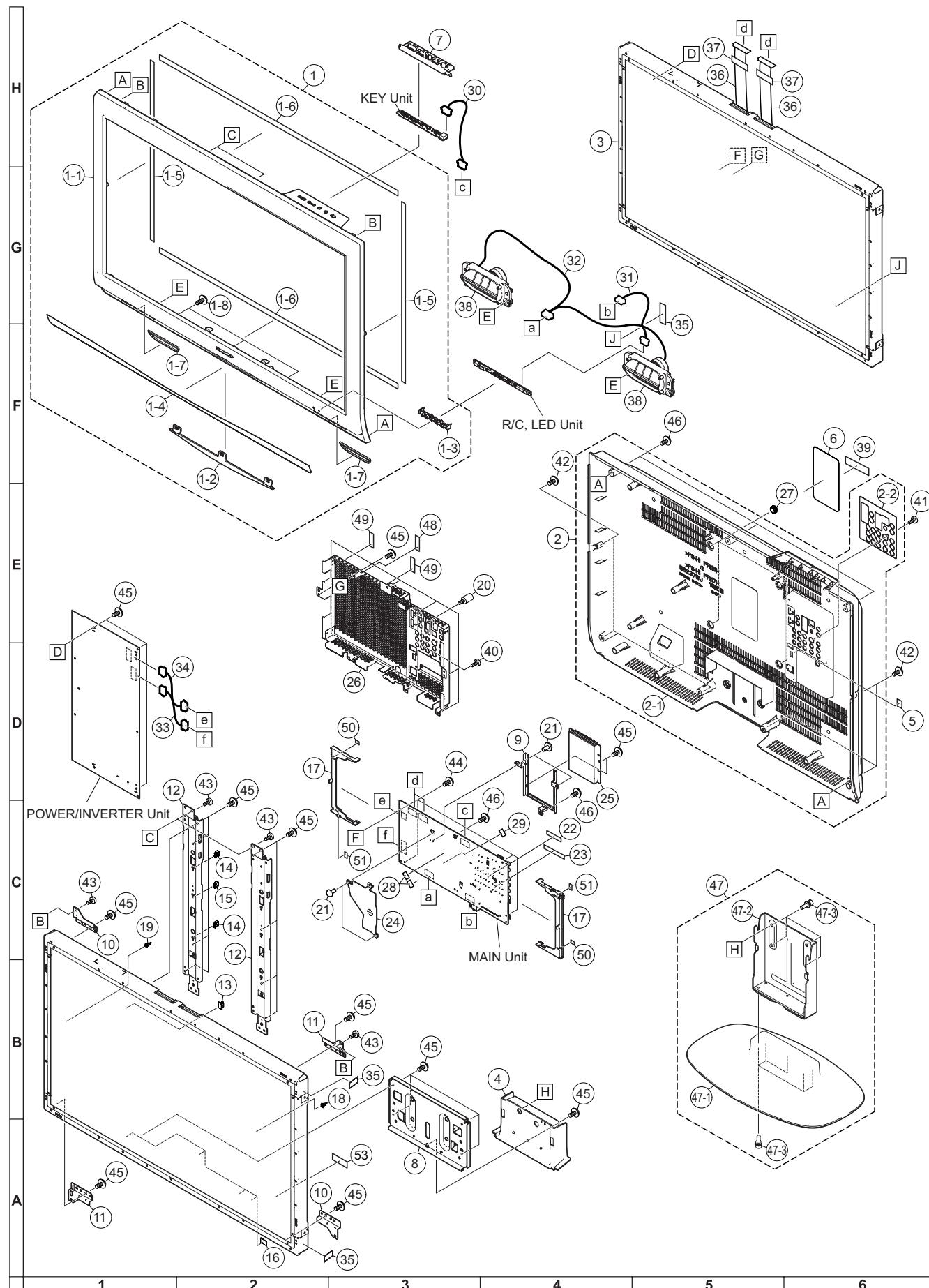


Attention

When peeling off the conductive cloth tape/gasket for repair, please use the NEW conductive cloth tape/gasket. (When using the conductive cloth tape/gasket again, keep in mind the decrease in the adhesive power of the conductive cloth tape/gasket. The purpose of using the NEW conductive cloth tape/gasket is to prevent the conductive cloth tape/gasket from peeling off.)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] NOTE (Conductive cloth tape/Gasket) (LC-32M44L)					
1	PSLDMB359WJZZ	AG	N	X	Conductive Cloth Tape
2	PSLDMB360WJZZ	AE	N	X	Conductive Cloth Tape, x2
3	QEARGA123WJZZ	AD		X	Conductive Cloth Tape, x3
4	PSLDMB361WJZZ	AC	N	X	Conductive Cloth Tape, x2
5	PSLDMB362WJZZ	AC	N	X	Conductive Cloth Tape, x2
6	PMLT-A533WJZZ	AD	N	X	Gasket
7	PMLT-A534WJZZ	AC	N	X	Gasket
8	ZSLCN-098P2KE	BH		J	One 150g tube

[6] CABINET AND MECHANICAL PARTS (LC-32M44L)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[6] CABINET AND MECHANICAL PARTS (LC-32M44L)					
1	CCABAB985WJ34	BM	N	X	Front Cabinet Ass'y
1-1	Not Available	-	N	-	Front Cabinet
1-2	Not Available	-	N	-	Decoration Plate (Center)
1-3	Not Available	-	N	-	LED Decoration
1-4	HPNL SA172WJK	AR	N	X	Speaker Net
1-5	PSPAHB406WJZZ	AC	N	X	Spacer, x2
1-6	PSPAHB407WJZZ	AC	N	X	Spacer, x2
1-7	Not Available	-	N	-	SP Spacer, x2
1-8	XJPSN30P08XS0	AA		J	Screw, x3
2	CCABBB237WJK1	BH	N	X	Rear Cabinet Ass'y
2-1	Not Available	-	N	-	Rear Cabinet
2-2	HINDPC686WJSA	AG	N	X	Terminal Label
3	R1LK315T3GW30Z	CW	N	J	32"LCD Panel Module Unit
4	GCOVAC612WJ3A	AK	N	X	Bottom Cover
5	HINDPB715WJSA	AF		X	Terminal Label
6	HINDPC873WJSA	AE	N	X	Model Label
7	JBTN-A718WJ3A	AF	N	X	Operation Button
8	LANGKB343WJZZ	AR	N	X	Stand Fix Angle
9	LANGKB346WJFW	AH	N	X	Heat Sink Fix Angle
10	LANGKB364WJFW	AC	N	X	LCD Fix Angle-A, x2
11	LANGKB365WJFW	AC	N	X	LCD Fix Angle-B, x2
12	LANGTA476WJZZ	AQ	N	X	VESA Angle, x2
13	LHLDWA133WJKZ	AC		J	Wire Holder
14	LHLDWA143WJKZ	AC		J	Wire Holder, x2
15	LHLDWA151WJKZ	AB		J	Wire Holder
16	LHLDWA175WJUZ	AC		J	Wire Holder, x4
17	LHLDZA928WJ3Z	AG	N	X	Main PWB Holder, x2
18	LHLDZA933WJKZ	AB	N	J	Wire Holder
19	LHLDZA934WJKZ	AB	N	J	Wire Holder
20	NSFTZ0134CEF	AD		J	Shaft, x2
21	PCL iCA004WJKZ	AC		J	Rivet, x4
22	PMLT-A534WJZZ	AC	N	X	Gasket
23	PMLT-A533WJZZ	AD	N	X	Gasket
24	PRDARA495WJFW	AH		X	Heat Sink
25	PRDARA510WJFW	AR		X	Heat Sink
26	PSLDMB275WJZZ	AQ	N	X	Main Shield
27	PSPAKA237WJ00	AA		X	Spacer, x4
28	PSPAZB086WJKZ	AD		J	Spacer, x2
29	PSPAZA917WJKZ	AH		J	Cool Sheet
30	QCNW-G724WJQZ	AF	N	X	Connecting Cord (KEY - MAIN)
31	QCNW-G725WJQZ	AK	N	X	Connecting Cord (LED - MAIN)
32	QCNW-H283WJPZ	AL	N	X	Connecting Cord (SP - MAIN)
33	QCNW-G727WJQZ	AK	N	X	Connecting Cord (POWER - MAIN)
34	QCNW-G728WJQZ	AG	N	X	Connecting Cord (INV - MAIN)
35	QEARZA123WJZZ	AD		X	Conductive Cloth Tape, x3
36	QPWBME512WJPZ	AN	N	X	Connecting Cord (LCD-FPC-MAIN), x2
37	RCORFA061WJZZ	AG		J	Core, x2
38	RSP-ZA310WJZZ	AQ	N	X	Speaker (L/R), x2
39	Not Available	-		-	No. Label
40	XBPS830P06000	AA		J	Screw (for HDMI), x2
41	XEBS930P10000	AA		J	Screw (for S-Terminal)
42	XEBS940P16000	AB		J	Screw (for CAB A B), x6
43	XEBSN40P10000	AB		J	Screw (for CAB A Panel), x4
44	XHPS730P16WS0	AB	N	J	Screw (for MAIN PWB2), x4
45	XHPS830P06WS0	AA	N	J	Screw (for MAIN PWB), x30
46	XHPS830P10WS0	AB		J	Screw (for CAB B Chassis), x3/(for MAIN PWB2), x2
47	CDAi-A441WJ03	BF	N	X	Stand Unit
47-1	Not Available	-	N	-	Stand Base Ass'y
47-2	Not Available	-	N	-	Stand Support Ass'y
47-3	Not Available	-	N	-	Screw (for Stand), x9
48	PSLDMB359WJZZ	AG	N	X	Conductive Cloth Tape
49	PSLDMB360WJZZ	AE	N	X	Conductive Cloth Tape, x2
50	PSLDMB361WJZZ	AC	N	X	Conductive Cloth Tape, x2
51	PSLDMB362WJZZ	AC	N	X	Conductive Cloth Tape, x2
52	ZSLCN-098P2KE	BH		J	One 150g tube
53	TLABK0023TAZZ	AA	N	J	Tray Label

[7] NOTE (Conductive cloth tape/Gasket) (LC-37M44L)

Added parts

Conductive Cloth Tape

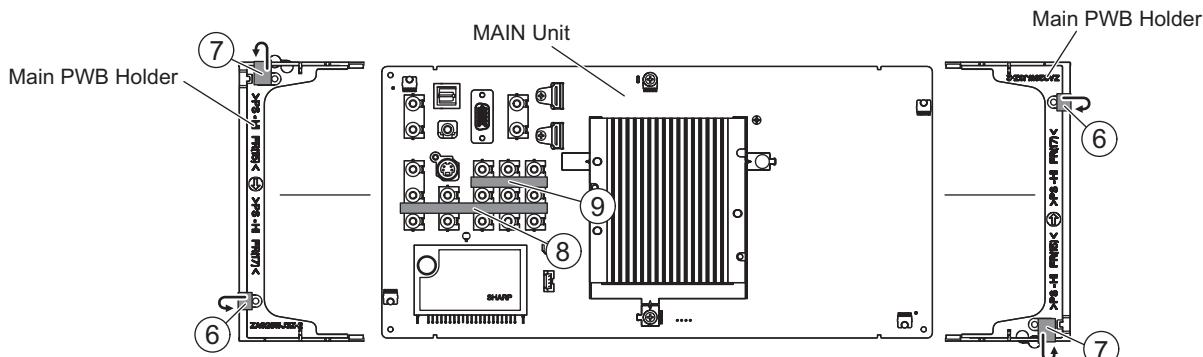
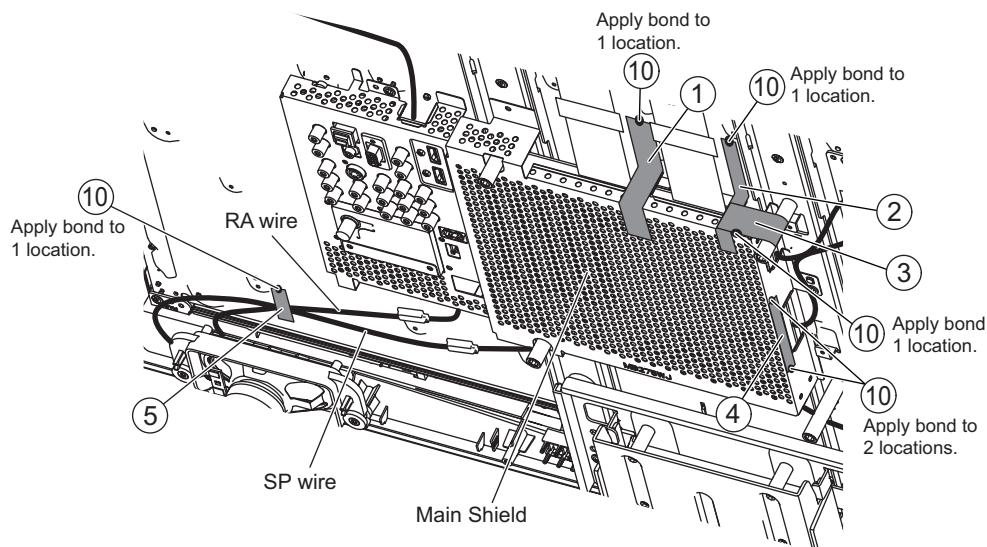
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⑤QEARZA123WJZZ	Q'ty 1	⑥PSLDMB361WJZZ	Q'ty 2
⑦PSLDMB362WJZZ	Q'ty 2		

Gasket

Parts code: ⑧PMLT-A533WJZZ	Q'ty 1	⑨PMLT-A534WJZZ	Q'ty 1
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Bond

Parts code: ⑩ZSLCN-098P2KE	(One 150g tube)
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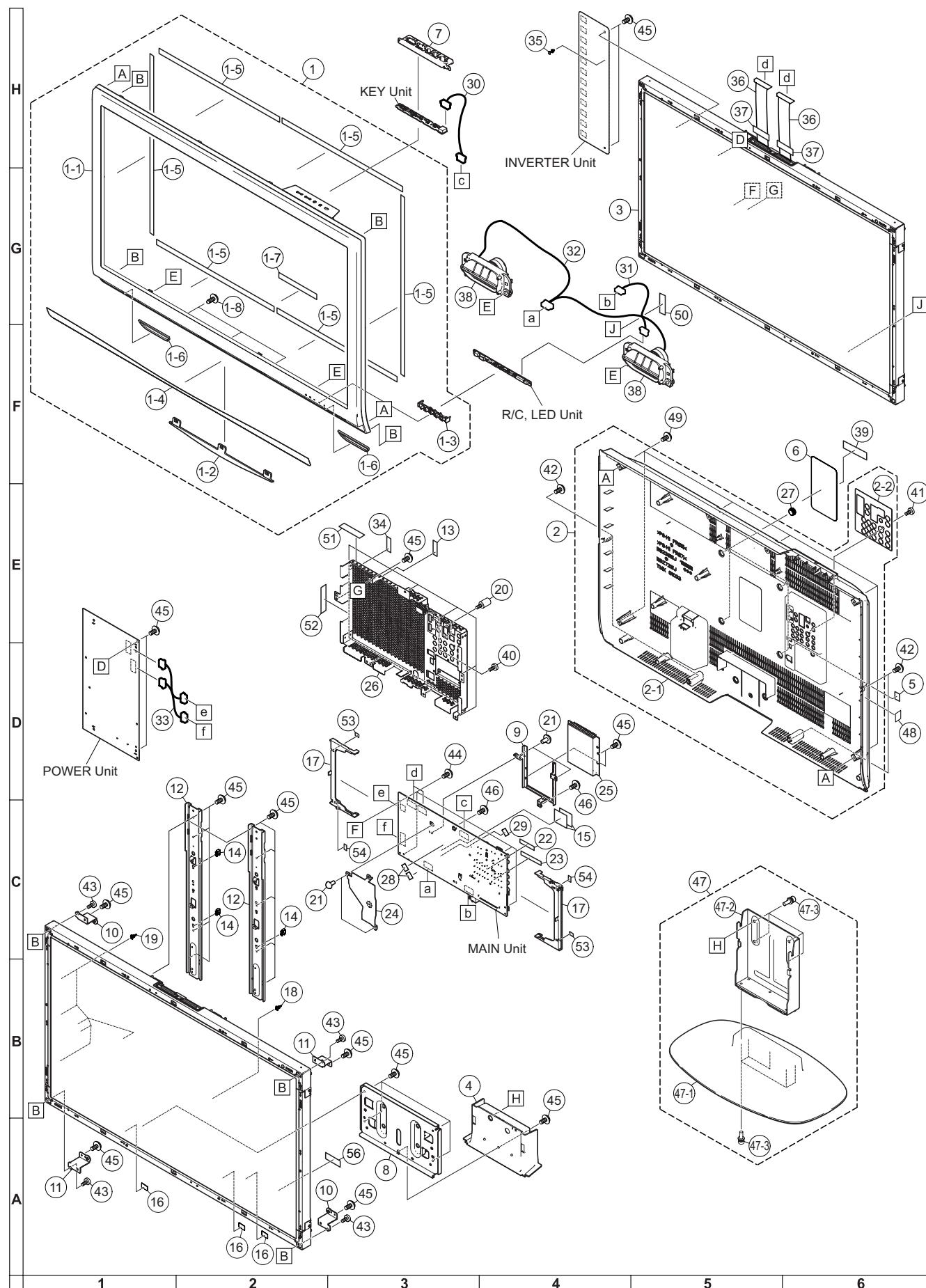


Attention

When peeling off the conductive cloth tape/gasket for repair, please use the NEW conductive cloth tape/gasket. (When using the conductive cloth tape/gasket again, keep in mind the decrease in the adhesive power of the conductive cloth tape/gasket. The purpose of using the NEW conductive cloth tape/gasket is to prevent the conductive cloth tape/gasket from peeling off.)

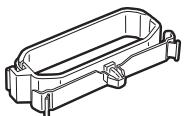
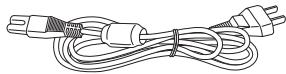
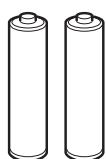
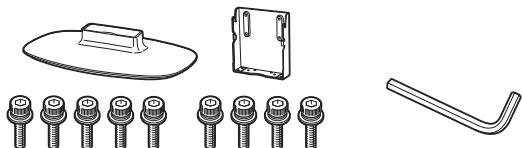
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] NOTE (Conductive cloth tape/Gasket) (LC-37M44L)					
1	PSLDMB359WJZZ	AG	N	X	Conductive Cloth Tape
2	PSLDMB360WJZZ	AE	N	X	Conductive Cloth Tape
3	PSLDMB276WJKZ	AE		X	Conductive Cloth Tape
4	PSLDMB375WJKZ	AF	N	X	Conductive Cloth Tape
5	QEARZA123WJZZ	AD		X	Conductive Cloth Tape
6	PSLDMB361WJZZ	AC	N	X	Conductive Cloth Tape, x2
7	PSLDMB362WJZZ	AC	N	X	Conductive Cloth Tape, x2
8	PMLT-A533WJZZ	AD	N	X	Gasket
9	PMLT-A534WJZZ	AC	N	X	Gasket
10	ZSLCN-098P2KE	BH		J	One 150g tube

[8] CABINET AND MECHANICAL PARTS (LC-37M44L)



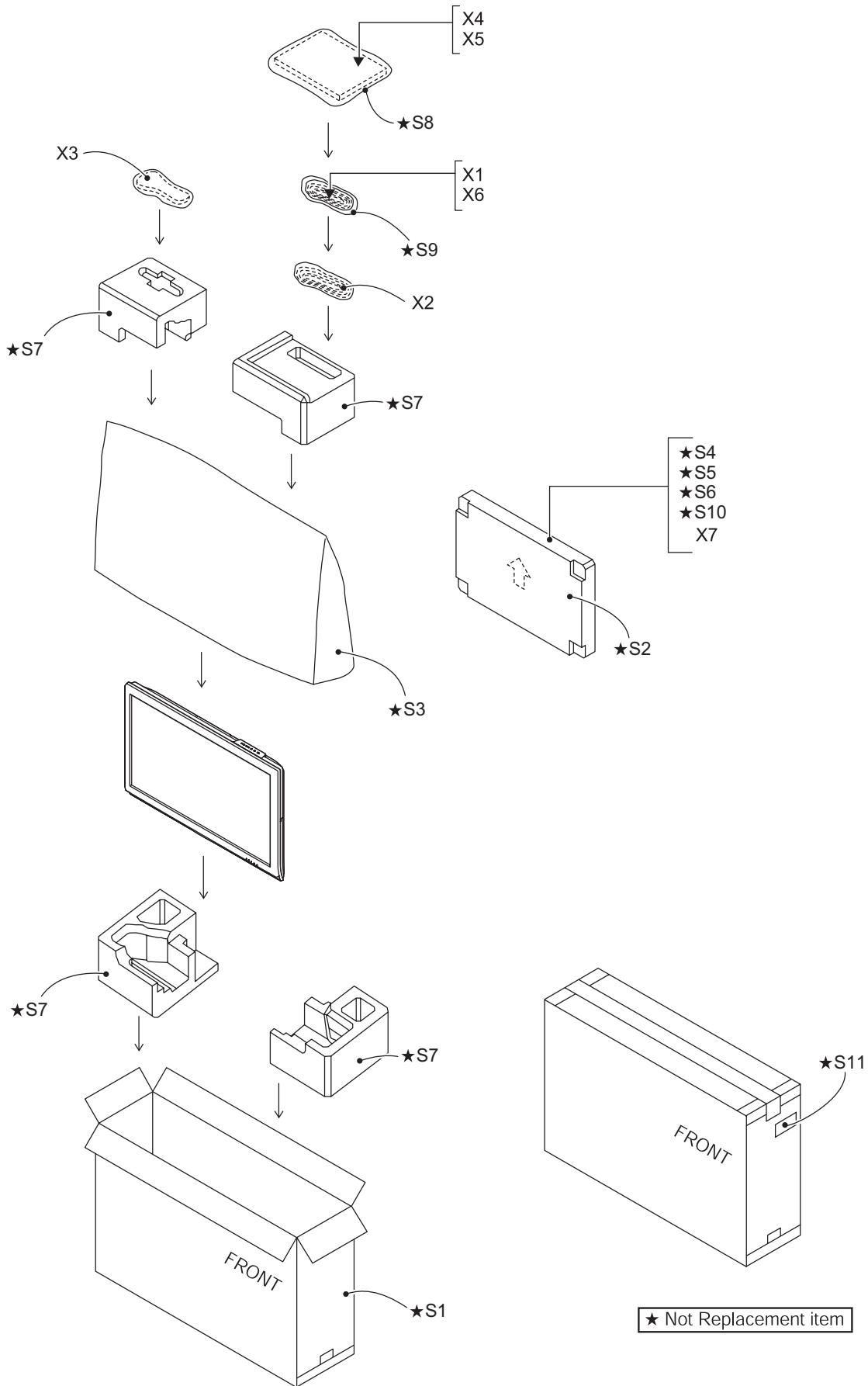
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[8] CABINET AND MECHANICAL PARTS (LC-37M44L)					
1	CCABAB986WJ34	BL	N	X	Front Cabinet Ass'y
1-1	Not Available	-	N	-	Front Cabinet
1-2	Not Available	-	N	-	Decoration Plate (Center)
1-3	Not Available	-	-	-	LED Decoration
1-4	HPNLSA173WJK	AS	N	X	Speaker Net
1-5	PSPAHB408WJZZ	AC	N	X	Spacer, x6
1-6	Not Available	-	N	-	SP Spacer, x2
1-7	Not Available	-	-	-	Spacer
1-8	XJPSN30P08XS0	AA	-	J	Screw, x3
2	CCABB238WJK1	BQ	N	X	Rear Cabinet Ass'y
2-1	Not Available	-	N	-	Rear Cabinet
2-2	HINDPC686WJSA	AG	N	X	Terminal Label
3	R1LK370T3GW20Z	EC	N	J	37"LCD Panel Module Unit
4	GC0VAC612WJ3A	AK	N	X	Bottom Cover
5	HINDPB715WJSA	AF	-	-	Terminal Label
6	HINDPC874WJSA	AE	N	X	Model Label
7	JBTN-A718WJ3A	AF	N	X	Operation Button
8	LANGKB343WJZZ	AR	N	X	Stand Fix Angle
9	LANGKB346WJFW	AH	N	X	Heat Sink Fix Angle
10	LANGKB366WJFW	AD	N	X	LCD Fix Angle-T, x2
11	LANGKB367WJFW	AD	N	X	LCD Fix Angle-B, x2
12	LANGTA478WJZZ	AR	N	X	VESA Angle, x2
13	PSLDMB359WJZZ	AG	N	X	Conductive Cloth Tape
14	LHLDWA143WJKZ	AC	-	J	Wire Holder, x3
15	PSPAzb598WJKZ	AP	-	X	Conductive Sheet, x2
16	LHLDWA175WJUZ	AC	-	J	Wire Holder, x3
17	LHLDZA928WJ3Z	AG	N	X	Main PWB Holder, x2
18	LHLDZA933WJKZ	AB	-	J	Wire Holder
19	LHLDZA934WJKZ	AB	-	J	Wire Holder, x6
20	NSFTZ0134CEF	AD	-	J	Shaft, x2
21	PCL iCA004WJKZ	AC	-	J	Rivet, x4
22	PMLT-A534WJZZ	AC	N	X	Gasket
23	PMLT-A533WJZZ	AD	N	X	Gasket
24	PRDARA495WJFW	AH	-	X	Heat Sink
25	PRDARA510WJFW	AR	-	X	Heat Sink
26	PSLDMB275WJZZ	AQ	N	X	Main Shield
27	PSPAka237WJ00	AA	-	X	Spacer, x4
28	PSPAzb086WJKZ	AD	-	J	Spacer, x2
29	PSPAza917WJKZ	AH	-	J	Cool Sheet
30	QCNW-G729WJQZ	AF	N	X	Connecting Cord (KEY - MAIN)
31	QCNW-G730WJQZ	AK	N	X	Connecting Cord (LED - MAIN)
32	QCNW-H284WJPZ	AL	N	X	Connecting Cord (SP - MAIN)
33	QCNW-G732WJQZ	AM	N	X	Connecting Cord (POWER - MAIN)
34	PSLDMB360WJZZ	AE	N	X	Conductive Cloth Tape
35	PSPAzb202WJKZ	AB	-	J	Spacer (for INV PWB)
36	QPWBME513WJPZ	AQ	N	X	Connecting Cord (LCD-FPC-MAIN), x2
37	RCORFA061WJZZ	AG	-	J	Core, x2
38	RSP-ZA310WJZZ	AQ	N	X	Speaker (L/R), x2
39	Not Available	-	-	-	Serial No. Label (Back)
40	XBPS830P06000	AA	-	J	Screw (for HDMI), x2
41	XEBS930P10000	AA	-	J	Screw (for S-Terminal)
42	XEBS940P16000	AB	-	J	Screw (for CAB A B), x4
43	XEBSN40P10000	AB	-	J	Screw (for CAB A PANEL), x4
44	XHPS730P16WS0	AB	-	J	Screw (for MAIN PWB), x4
45	XHPS830P06WS0	AA	-	J	Screw (for Heat Sink), x32
46	XHPS830P10WS0	AB	-	J	Screw (for MAIN PWB2), x2
47	CDAi-A441WJ03	BF	N	X	Stand Unit
47-1	Not Available	-	N	-	Stand Base Ass'y
47-2	Not Available	-	N	-	Stand Support Ass'y
47-3	Not Available	-	N	-	Screw (for Stand), x9
48	Not Available	-	N	-	Serial No. Label (Side)
49	XBPS940P10JS0	AB	-	J	Screw (for CAB B Chassis), x6
50	QEARZA123WJZZ	AD	-	X	Conductive Cloth Tape
51	PSLDMB276WJKZ	AE	-	X	Conductive Cloth Tape
52	PSLDMB375WJKZ	AF	N	X	Conductive Cloth Tape
53	PSLDMB361WJZZ	AC	N	X	Conductive Cloth Tape, x2
54	PSLDMB362WJZZ	AC	N	X	Conductive Cloth Tape, x2
55	ZSLCN-098P2KE	BH	-	J	One 150g tube
56	TLABK0023TAZZ	AA	N	J	Tray Label

[9] SUPPLIED ACCESSORIES

X1	Cable Clamp	X2	AC Cord	X3	Remote Control Unit	Operation Manual
						X4 X5 
X6	"AAA" Size Battery	X7	Stand Unit			
						

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[9] SUPPLIED ACCESSORIES					
X1	LHLDWA173WJKZ	AE		J	Cable Clamp
X2	QACCZA076WJPZ	AR		X	AC Cord
X3	RRMCGA667WJSA	AP	N	X	Remote Control Unit
X4	TINS-D737WJZZ	AE	N	X	Operation Manual (English)
X5	TINS-D738WJZZ	AE	N	X	Operation Manual (Spanish)
X6	Not Available	-		-	"AAA" Size Battery
X7	CDAi-A441WJ03	BF	N	X	Stand Unit



[10] PACKING PARTS (NOT REPLACEMENT ITEM)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[10] PACKING PARTS (NOT REPLACEMENT ITEM)					
S1	SPAKCE283WJZZ	-	N	-	Packing Case (LC-32M44L)
S1	SPAKCE285WJZZ	-	N	-	Packing Case (LC-37M44L)
S2	SPAKCE206WJZZ	-	N	-	Stand Case
S3	SPAKPB045WJZZ	-		-	Wrapping Paper (LC-32M44L)
S3	SPAKPB046WJZZ	-		-	Wrapping Paper (LC-37M44L)
S4	SPAKPB053WJZZ	-	N	-	Mirror Mat Sup
S5	SPAKPB054WJZZ	-	N	-	Mirror Mat Base
S6	SPAKAA373WJZZ	-	N	-	Cover Sheet
S7	SPAKXB803WJZZ	-	N	-	Packing Add. (LC-32M44L)
S7	SPAKXB804WJZZ	-	N	-	Packing Add. (LC-37M44L)
S8	SSAKA0101GJZZ	-		-	Polyethylene Bag
S9	SSAKAA032WJZZ	-		-	Polyethylene Bag
S10	SSAKHA042WJZZ	-	N	-	Polyethylene Bag for Screw
S11	TLABKA009WJZZ	-		-	No. Label
[11] SERVICE JIG (USE FOR SERVICING)					
N N	QCNW-C222WJQZ	AW		J	Connecting Cord (80pin FFC L=1000mm), x2 MAIN to LCD Panel Unit
N N	QCNW-G906WJQZ	BA	N	J	Connecting Cord (12pin L=1000mm) MAIN to POWER Unit (PD)
N N	QCNW-G907WJQZ	AW	N	J	Connecting Cord (7pin L=1000mm) MAIN to INVERTER Unit (LB)

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